

MFL-3500

Tuneable Mid-IR Fibre Laser

Mirage Photonics

Mirage Photonics' MFL-3500 is a continuously tuneable Mid-IR Er:ZBLAN fibre laser featuring a narrow linewidth with efficient room temperature operation.

As the first of its kind, it provides a new benchmark in efficiency and portability for 3.5 μm laser sources with excellent beam quality. The MFL-3500 is ideal for atmospheric and environmental monitoring applications where tunability and portability are vital.



Room temperature operation



Wide tunability of greater than 450 nm



Efficient 3.5 μm output



Robust fibre construction

Maximum power @ 3.5 μm band	[W]	1.5 (a)
Wavelength tunability @ 3.5 μm band	[nm]	3330-3780
Wavelength tunability @ 2.8 μm band	[nm]	200
Linewidth	[nm]	0.3 (b)
Beam quality		TEM ₀₀ M ² < 1.1
Power stability	[%]	0.4 (c)
Duty cycle	[%]	1-100
Polarization		Linear (30:1)
Dimensions	[cm]	45 x 35 x 45 (d)

(a) Free running laser. Maximum power for the tuned version - 100s of mW

(b) Narrower linewidth optional

(c) Standard deviation over 15 minutes - free running

(d) Laser head size 30x25x5cm